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A new stainless steel.

(57)

A new stainless steel comprising iron and the following
additional components in weight percent:

Mo 3–6

Cu 0.25–0.35

Si, max. 1.5

Mn, max 1

C 0.12–0.30

with the proviso that the relative proportion between Mo 10
and C is governed by the formula

$\text{wgt \% Mo} - (\text{wgt \% C} \times 16) = \text{from 1 to 2.5\%}.$

Optionally, the new stainless steel may also include Ni,
Cr, Nb and Ta.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	US-A-2 200 208 (PARSONS) * Claims 1-5; page 2, lines 41-50 *	1-5	C 22 C 38/12 C 22 C 38/22 C 22 C 38/44
X	--- DE-C- 706 878 (STAHLWERKE RÖCHLING-BUDERUS A.G.) * The whole document *	1-5	
X	--- FR-A-2 068 228 (GEBR. BÖHLER & CO. A.G.) * Claims 1,2 * & GB - A - 1 295 889, DE - A - 1 950 932, CH - A - 561 283, NL - A - 7 014 779, BE - A - 757 048, DE - A - 318 682	1-5	
X	--- EDUARD HOUDREMONT: "HONDBUCH DER SONDERSTAHLKUNDE", vol. 1, 1956, pages 1258-1260, Springer-Verlag, Berlin, DE; * Pages 1258-1260: 4. "Kupfer in Stählen mit besonderem chemischem Verhalten" * -----	1-5	TECHNICAL FIELDS SEARCHED (Int. Cl.4) C 22 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26-09-1985	Examiner LIPPENS M.H.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			